

## CLAIMS

What is claimed is:

- 1 1. A method, comprising:
  - 2 a) sending ATM source identification and an ATM-TDM correlation tag
  - 3 from an ATM source gateway to a telephony signaling control network;
  - 4 b) receiving at an ATM destination gateway said ATM source
  - 5 identification and said ATM-TDM correlation tag sent from said telephony
  - 6 signaling control network; and
  - 7 c) sending said ATM-TDM correlation tag from said ATM destination
  - 8 gateway to said ATM source gateway to establish a connection between said
  - 9 ATM destination gateway and said ATM source gateway.
- 1 2. The method of claim 1 further comprising sending notification of a call
  - 2 from said telephony signaling control network to said ATM source gateway
  - 3 before said ATM source identification and said ATM-TDM correlation tag are
  - 4 sent to said telephony signaling control network.
- 1 3. The method of claim 2 wherein said ATM source gateway generates said
  - 2 ATM-TDM correlation tag in response to said notification.
- 1 4. The method of claim 3 wherein said ATM-TDM correlation tag is a
  - 2 random number.

1 5. The method of claim 2 wherein said notification identifies which trunk  
2 line said call will be carried over, said trunk line coupling said ATM source  
3 gateway to a first telephony network.

1 6. The method of claim 2 wherein said notification further identifies which  
2 TDM time slot said call will be carried over, said TDM time slot on an trunk line  
3 that couples said ATM source gateway to a first telephony network.

1 7. The method of claim 6 further comprising, after receiving said ATM-TDM  
2 correlation tag at said ATM source gateway, reflecting within a mapping table of  
3 said ATM source gateway that a VPI/VCI address received in a SETUP message  
4 with said ATM-TDM correlation tag corresponds to said particular TDM time  
5 slot.

1 8. The method of claim 1 wherein said sending said ATM-TDM correlation  
2 tag further comprises sending a SETUP message within an ATM network in a  
3 direction from said ATM destination gateway to said ATM source gateway.

1 9. The method of claim 8 further comprising sending a CONNECT message  
2 within said ATM network in a second direction from said ATM source gateway  
3 to said ATM destination gateway after said SETUP message has been received at  
4 said ATM source gateway.

1 10. The method of claim 1 wherein said sending said ATM-TDM correlation  
2 tag further comprises sending a ERQ message within an ATM network in a  
3 direction from said ATM destination gateway to said ATM source gateway.

1 11. The method of claim 10 further comprising sending a ECF message within  
2 said ATM network in a second direction from said ATM source gateway to said  
3 ATM destination gateway after said ERQ message has been received at said  
4 ATM source gateway.

1 12. The method of claim 1 further comprising sending, from said telephony  
2 signaling control network to said ATM destination gateway, which TDM time  
3 slot within a trunk line said call will be carried over, said trunk line coupling said  
4 ATM destination gateway to a telephony network.

1 13. The method of claim 12 further comprising updating a mapping table  
2 within said ATM destination gateway to reflect that a cell with a particular  
3 VPI/VCI corresponds to information carried over said TDM time slot.

1 14. The method of claim 1 further comprising sending, from said telephony  
2 signaling control network to said ATM destination gateway, which TDM time  
3 slot said call will be carried over.

1 15. The method of claim 12 further comprising updating a mapping table  
2 within said ATM destination gateway to reflect that a cell with a

particular VPI/VCI corresponds to information carried over said TDM  
time slot.

16. A method, comprising:

- a) sending an ATM-TDM correlation tag from an ATM  
source gateway, through a telephony signaling control  
network to an ATM destination gateway; and
- b) sending said ATM-TDM correlation tag from said ATM  
destination gateway to said ATM source gateway with a  
SETUP message.

17. The method of claim 16 wherein said ATM-TDM correlation tag is  
within a Called Party Sub Address Information Element (IE) of said  
SETUP message.

18. The method of claim 16 wherein said ATM-TDM correlation tag is  
within a Generic Identifier Transport (GIT) IE of said SETUP message.

19. The method of claim 16 wherein said ATM-TDM correlation tag is  
within a Generic Application Transport (GAT) IE of said SETUP  
message.



1        23.     The method of claim 16 wherein said ATM-TDM correlation tag is  
2                within a Served User Generated Reference (SUGR) IE of said SETUP  
3                message.